

## **ABSTRACT**

A method for x-ray scatter correction during simultaneous bi-plane imaging using digital image processing. The basic concept includes correcting the image from each plane by combining it with an image of the scatter generated from the exposures of the opposite plane in such a way that the scatter effects are removed. The correction image is formed by sampling images from the detector with only the x-ray exposure of the scatter producing plane being active. These sampled images of scatter are processed to form the scatter correction image. The scatter correction image is stored in an image memory so that it is available for combination with subsequent x-ray images to remove scatter distortion.